Approved For Release 2002/05/09 : CIA-RDP84-00933R000500150012-0

CENTRAL INTELLIGENCE AGENCY PROGRAM

File CRAPT

Human Source Collection

Project CRAFT

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13	, , , , , , , , , , , , , , , , , , ,	
Wh th	at level of funding should be approved over the program period to automate experational and administrative support activities of the CIA at overseas	2
RE.	ASON FOR ISSUE	
la: sy: wo:	e notion of a "paperless station" has been under study by the CIA since te 1976. CRAFTthe Clandestine Record Applications Field Terminalis a stem of "off-the-shelf" hardware and software whose magnetic storage media ald be used to reduce a station's paper holdings and permit rapid struction of sensitive station files and documents.	
0	CRAFT has been selected as an FY 1982-FY 1986 program issue for the following reasons:	
	1. NFIP Resource Investment Required: The deployment of CRAFT to overseas DDO stations has been recommended by the Program Manager. The scope and timetable carries a multi-year resource commitment of dollars and positions over the program period for procurement and installation, as well as for maintenance, logistics support, and training over the system life cycle.	25
		2
VAL	UE OF THE ACTIVITY	
0	The contribution of CRAFT to US intelligence is the information management support the system is expected to provide to DDO field operations. This will be brought about through the use of standard ADP	
	services supported by the telecommunications facilities of the CIA's	
С		
0	A single automated technology, using standard hardware and based on CIA's experience developing CRAFT, might constitute the most efficient and cost effective approach for the government to follow in coping with the	

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Approved For Release 2002/05/09: CIA-RDP84-00933R000500150012-0 CRAFT Concept

- The CRAFT concept can be broadly described as an application of word processing and data processing, with associated communications support, to enable DDO overseas stations to manage information more effectively. The concept is based upon the following two assumptions:
 - 1. In the aggregate, DBO station information handling activities are highly similar; therefore, a common set of automated services with standard hardware configurations can be successfully deployed overseas. Hardware maintenance can be directly provided at the station by the communications center staff, and software support can be provided by programmers working at CIA Headquarters.
 - 2. The Chief of Station (COS), his officers, and administrative staff would use CRAFT as a more efficient and secure way of managing information. Specifically, they would store material in electronic form and use less "hard copy."

Common administrative services include electronic preparation of text and distribution of mail, data base storage and retrieval, inventory control, financial reporting, and personnel management. The principal operational benefits of CRAFT are on-site storage of information in excess of what burnout time requirements could allow, and the rapid capability provided the field officer for querying station and Headquarters produced computerized counterintelligence and biographic-cryptonym indices.

25X^	The CRAFT concept is now being tested at DDO stations At these locations, operations, administration, and staff levels closely resemble the "large" and "small" DDO stations overseas where CRAFT would be installed.* The	25X1A 25X1A
		25X1
25X9	*The CRAFT project proposal defines a large DDO station to consist of or more individuals, having separate work spaces for the COS, registry, operations, etc. A small DDO station would consist of at least 2 but less than individuals, with the station's information handling functions typically performed in a single area often by a single individual.	25X9

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	0	Four resource alt regarding the rat deployed overseas	e and mix a	t which CR				
25X1	0	Two alternatives a standard automa considered for us classified inform	te <u>d system,</u> e	based on		echnology,	should be	25X1
	DES	CRIPTION OF ALTERN	ATIVES					
	Α.	Resource Alternat	ives:					
	0	Alternative 1: D contained in the						
		3	FY 82	FY 83	<u>FY 84</u>	FY 85	FY 86	
	\$(M Pos) itions						25X1A
		within the funding 1986 CIAP. Funds DDO field station	and positi	ons are pr				25X9
25X9	o [Alternative 2: A Program Manager's	recommenda	tion (PMRP	rogram in ac). Deploy (ations by F)	CRAFT config	gurations to	
			FY 82	FY 83	FY 84	FY 85	FY 86	
	\$(M) Pos) itions						25X1A
		total staff positi reaching 45 new po contractor service program period to	sitions in es totaling	FY 1986. 160 work	The effort years over t	will also the FY 1982	require	
	0	Alternative 3: De installation scheo by FY 1987. Defer FY 1987. Develop necessary support	fule which a deployment CRAFT as an	automates t of remai n "in-hous	ning 11 larg e" CIA proje	large ge stations	ODO s tations to beyond	25X9
			FY 82	FY 83	FY 84	FY 85	FY 86	
	\$(M) Posi	itions .						25X1A

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		FY 82	FY 83	FY 84	FY 85	FY 86	
\$ (1 Po:	M) sit i ons						25X1A
AN	ALYSIS		•				
٥,	Resource Alte	ernatives					
	Alternative 1	** *				·	
0	for the least	dollar in ons or for ted with A	vestment an contractor Iternative	d without t support. 1, together	he need for A detailed with the a	breakout of the ssociated	
C P	stations pose Given the CIA "paperless" e station deplo security, how Resources are small DDO sta threat	s a more distance of since it is a more of since it is a more of the s	ifficult prinding objects, the prior inderstandal roative 1 defends for the ill stations of stations	oblem than ctive to trive to troity Altern ble. On the ces not mee deployment are locatives are highly	does the sm ansform DDO ative 1 ass e basis of t total CIA of CRAFT c ed in areas t present, vulnerable	stations to igns to large station needs. onfigurations to where the for example, the to mob attack.	
	Alternative 2	b				•	
О	Under this alaccelerated raccelerated raccel	ate. For a Office wou	n investmer 1d be estab	nt of appro <u>plished</u> and	ximately work begun	at an million, a in FY 1982 to ions by FY 1987.	25X 25X9
0	overall risk overrun. The	ves of achi of informat total bene	eving paper ion compror fit cannot	rless stationise should be obtained	on and of m a d, however,	inimizing totalbe	25X1

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25X1	o A	A sizable percentage of accelerated program cost is governed by large station automation requirements. For example: (1) of the \$3.9 million requested in FY 1982 for hardware procurement approximately \$3.0 is tied directly with minicomputers and terminals for large station automation, (2) of the	25X1
	cour not now ther Alte	the majority of the DDO large stations to be automated are located in a tries where a direct threat to the safety does presently exist. Of the large stations under consideration, four are located in high threat areas. For the remaining large stations, refore, a significant percentage of the resources associated with ernative 2 would be invested primarily to attain the paperless working ironment.	25X1C 25X9 25X9
25>	(9	In addition to automation of the stations' administrative and operational activities, the impact of Alternative 2 upon station communications should not be ignored. CRAFT will not save communication spaces, although the operational scenario implies the system will reduce message handling workloads: Under the accelerated CRAFT program, 55 new positions are required through FY 1986 if the CIA Office of Communications is to fulfill its CRAFT related responsi bilities. Of these, 30 positions are needed to maintain system hardware at the stations. Although contractors might lessen the direct impact of the accelerated program's maintenance requirements upon the Office of Communications, only US citizens who are fully CIA cleared will be allowed to maintain CRAFT hardware and communications software in the field. The positions required to maintain CRAFT configurations overseas might be offset somewhat by the completion of CIA's network modernization program, which will introduce modern communications technology at Headquarters and in the field in support of Although CRAFT is not now dependent upon these capabilities, the full potential of CRAFT will not be realized until network modernization is completed in the early 1990s. Through the 1980s, at least, the 30 additional technical positions for CRAFT maintenance would be required. The remaining 25 position increase is associated with logistics support, training, and TEMPEST testing.*	25X1C
25X9 25X9		Alternative 3 provides sufficient resources for CIA to develop and deploy CRAFT tosmall DDO overseas stations by FY 1987. Lower cost and position requirements reflect the deferral of of thelarge station CRAFT deployments to beyond FY 1987. A percentage of the resource savings is channeled into accelerated deployment of CRAFT to small DDO stations. This alternative preserves the approved FY 1981 CRAFT plan described in Alternative 1, and accommodates the Program Manager's small station CRAFT deployment requirement described under	25X9
-		Alternative 2.	

^{*}The Program Manager commented that much of CRAFT hardware maintenance will be provided by a dedicated Headquarters component assigned to the DDO, and that no increase to the CRAFT system.

25X1	.a	A cost and deployment schedule for Alternative 3 is "own in Table 3 of the atta Approved For Release 2002/05/09 is CIA RDP 34:00933 R000500150012:0 CIA undertake CRAFT without contractor support. The CRAFT project proposal assigns about 40 percent of the ADP design, development, and software maintenance requirements to contractors. By stretching out the deployment of large station configurations, the CRAFT Project Office should be able to provide these services in FY 1982 within positions now assigned to the CRAFT project. In FY 1983 and FY 1984, additional ADP support positions would be provided to CRAFT as project momentum intensifies. The technical staff positions needed to bring project office strength in FY 1983 and in FY 1984 could be obtained from CIA ADP development positions assigned to the SAFE Project Office. FY 1983 is identified in the CIAP submission as the point when SAFE will phase out of development and test and into an operational capability.*	25X1 25X1
	o		
25X1A			
	L	Alternative 4:	
(0	If DDO personnel overseas fail to use CRAFT, either because the	
		assumptions underlying the system concept are not correct, or because automation of the station environment is dysfunctional, then the development and deployment of CRAFT would not make sense. Proponents of paperless technology acknowledge that the "human adjustment" is a major obstacle, because machines force individuals to change their work behavior. This problem appears to particularly affect "executives" where the adjustments required could be radical. Thus, the degree to	
25X1A		which overseas station operations and administration is a direct function of the managerial style of a particular COS is an important consideration with regard to CRAFT implementation. Although the tests will provide insight as to how CRAFT would affect station operations and administrative activities, these results will likely not be available until mid FY 1981. The first overseas	25X1
25X1 a	it 7	e Program Manager concurs with the costing of Alternative 3, but states least 'additional staff positions are required over and above the	

deployment of the state of the deployment rate and mix of CRAFT configurations would be determined after the concept has been fully tested in the operating environments where the configurations would be placed. This alternative provides resources for the Program Manager to test CRAFT at a number of small overseas DDO stations in addition to the single overseas large station now planned. At a minimum, the percentage of classified paper that CRAFT would eliminate at all DDO stations should be estimated with confidence before a large investment in the automated technology is

25X1

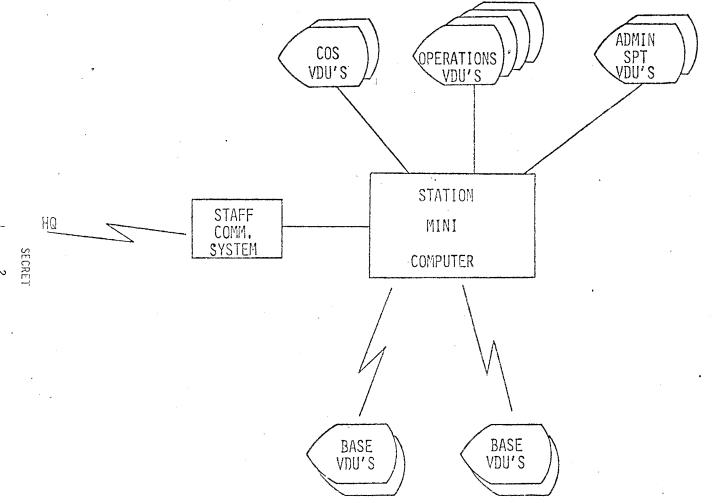
	В.	FY 1983-FY 1987 Guidance Alternatives	
5X1	0	Alternative 1: CIA should coordinate CRAFT deployment but proceed independently with system design, procurement, installation, and operation.	development,
25X1C			
·			

25X1C	Approved For Release 2002/05/09 : CIA-RDP84-00933R000500150012-0 Alternative 2:

^{*} The description of CRAFT presented in the attachment is based upon the CIA's DELTA DATA terminal which is now TEMPEST certified. This alternative would not preclude the use of some other TEMPEST certified hardware devise should it become available and capable of satisfying mission requirements at lower overall cost.

Approved For Release 2002/05/09: CIA-RDP84-00933R000500150012-0 CRAFT Configurations

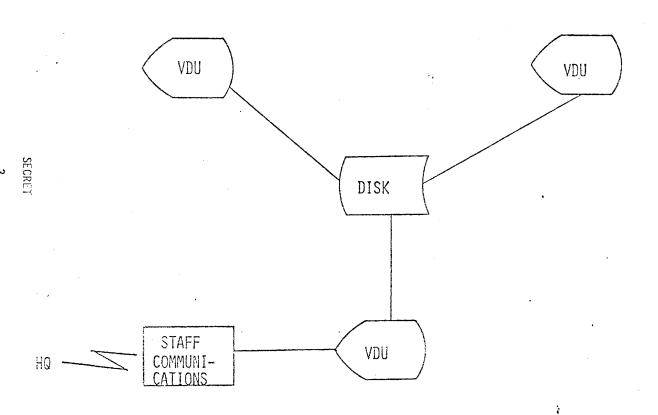
25X1C 25X9	Two distinct system configurations are associated with the CRAFT concept. To accommodate the classified material retained at the large station and its volume of message traffic, a modular minicomputer based configuration would be used. As shown in Figure 1, a number of Visual Display Units (VDUs)—based on the CIA's standard Delta Data terminal—would be installed throughout the large station's spaces to provide DDO users with access to other VDUs and the minicomputer. The minicomputer would be located in the large station's communications center, which for all stations are manned by CIA communicators under the existing Figure 2 shows the configuration of CRAFT proposed for installation at small DDO stations. At least two VDUs would be used, equipped with floppy disk storage. These are considered sufficient for station files, indices, text and message preparation. The operation of the small station parallels those of the large station but on a much smaller scale. This means disc storage can substitute for the station minicomputer and still give a full range of common automated services to the DDO staff. All small stations where this	25X1C 25X9
25X1C	particular configuration would be installed have communication centers manned by the CIA	
	Communications Support	
o 25X1C	Each CRAFT configuration will have an interface to the CIA foreign message network using the satellite (SKYLINK) and HF circuitry provided The CRAFT communications interface will initially allow only the exchange of message traffic between the station's minicomputer and Headquarters. The communications center would benefit from CRAFT by avoiding "re-keying" of outgoing messages and by having incoming messages captured in digital form for storage and retrieval.	
25X1C 0	In coordination with the Office of Communication's network modernization effort, CRAFT's initial interface is planned for upgrade in the post program period to provide selected stations with "on-line" access to Headquarters information files. Also in the post program period, the DDO anticipates CRAFT could provide automated services to non-official cover officers and agents. Development work in such areas as encryption, compartmentation, and covert communications is required before these services are possible.	
o		
25X1C		



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CRAFT SMALL STATION SYSTEM



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